

Title (en)
Stereoscopic vision system.

Title (de)
Stereoskopisches Lichtsystem.

Title (fr)
Système de vision stéréoscopique.

Publication
EP 0121411 A2 19841010 (EN)

Application
EP 84302123 A 19840328

Priority
JP 5607183 A 19830331

Abstract (en)
Two-dimensional images of a three-dimensional body (14) photographed by two video cameras (10,12) are parallaxically compensated prior performing the detection of the corresponding point necessary to recognize the body. Namely, the parallax between both cameras (10, 12) for the object distance (do) measured by a range finder (22) is calculated by parallax calculator (26), and one image is electrically shifted by an image shifting circuit (32) by only the number of pixels in accordance with the parallax value, thereby performing the parallax compensation of the images. In a calculation processing unit (20), the correlation values for the corresponding points between both images are calculated, and the distance images of the body (14) are produced on the basis of these correlation values.

IPC 1-7
G01C 11/00

IPC 8 full level
G01C 11/00 (2006.01); **G01C 11/06** (2006.01); **H04N 7/18** (2006.01); **H04N 13/239** (2018.01)

CPC (source: EP US)
G01C 11/00 (2013.01 - EP US); **G01C 11/06** (2013.01 - EP US); **H04N 13/239** (2018.04 - EP US)

Cited by
CN112066950A; GB2284118A; GB2295741B; GB2305794A; EP0766101A3; GB2283383A; EP0211783A1; FR2584599A1; US6233361B1; GB2261339A; US5307136A; GB2261339B

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0121411 A2 19841010; **EP 0121411 A3 19880113**; **EP 0121411 B1 19901017**; DE 3483399 D1 19901122; JP S59182688 A 19841017; US 4573191 A 19860225

DOCDB simple family (application)
EP 84302123 A 19840328; DE 3483399 T 19840328; JP 5607183 A 19830331; US 59473384 A 19840329